

TRANSMITTAL SLIP

DATE

9 May 1969

TO:

ROOM NO.
5S 4

REMARKS.

Declass Review by NGA.

FROM:

Technical Advisor, IAS

ROOM NO.

SECRET

IAS - 71/69
12 May 1969

MEMORANDUM FOR: Chief, Technical Services and Support Group, NPIC
ATTENTION : Chief, Test and Evaluation Branch, ESD/TSSC/NPIC
SUBJECT : IAS Operational Evaluation of 1540 Split
Format Light Table

1. Twelve IAS Imagery analysts have now completed a time restricted operational evaluation of the subject item and the following comments are provided per your request:

1.1 Joystick Control - a desirable feature.

1.1.1 Position is too near the back plate and control lever should be longer. Suggest moving to right side of ring mount or forward of its present location.

1.2 Electrical/Mechanical Handwheel - undesirable

1.2.1 Provides no better movement than motor drive

1.2.2 Does not operate smoothly

1.2.3 Precise film positioning is difficult if not impossible. Majority of our evaluators would prefer mechanical handwheel.

1.3 Motorized Film Drive -

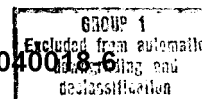
1.3.1 Tensioning is adequate

1.3.2 Normal and high speed film movement is good, but fine positioning of film was not possible.

1.4 Motorized Table Evaluating Mechanism - unnecessary

1.4.1 IAS would seldom use this feature. A manual hand-wheel with a lower gear ratio would be adequate. Height variation is generally sufficient.

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IAS - 71/69

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1.5 Light Source -

- 1.5.1 Intensity appears adequate
- 1.5.2 Heat generation is insignificant
- 1.5.3 Light flicker is not a problem
- 1.5.4 Light fall-off could not be measured, but variations appear significant

1.6 Control Knobs - generally convenient and functional except as noted below

- 1.6.1 See paragraph 1.1.1 regarding joystick control
- 1.6.2 Film drive control knobs should have a more positive null position or at least a visible indication of the null range.

1.7 Film Spool Holder - generally desirable

- 1.7.1 Positioning would be improved by a spring loaded detent
- 1.7.2 Position markings for 70 mm spools (on left side) are not accurate

1.8 Microscope Mounting System - satisfactory

1.9 Finish - satisfactory

2. Although IAS has budgeted for procurement of twenty 1540's in FY-69, I will be reluctant to recommend obligation of procurement funds until the manufacturer demonstrates his ability to correct the two major deficiencies: (1) inability to position film accurately with present drive mechanisms, and (2) light fall-off.

Technical Advisor
Imagery Analysis Service

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SUBJECT: IAS Operational Evaluation of [REDACTED] 1540 Split Format Light
Table

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